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AMENDMENTS TO THE CLAIMS

Please cancel claims 16, 17, 19, 22, and 23, and amend claims 18, 20, 21, 24, 27, and 29-31, such that the status of the claims is as follows:

- 1. (Previously Presented) A magnetic storage medium comprising:
 - a substrate having a substrate surface;
 - a seedlayer structure overlying the substrate surface;
 - a magnetic material layer on the seedlayer structure, the magnetic material layer having a

 C-axis tilted at about a first angle with respect to an axis perpendicular to the
 substrate surface and having a magnetic easy axis oriented at a second angle with
 respect to the axis perpendicular to the substrate surface; and
 - a soft magnetic underlayer between the substrate and the seedlayer structure.
- 2. (Original) The magnetic storage medium of claim 1 wherein the seedlayer structure includes crystallographic texture tilted with respect to an axis perpendicular to the substrate surface and acts as a template for epitaxial growth.
- 3. (Original) The magnetic storage medium of claim 1 wherein the first angle is in the range of about 25° to about 55°.
- 4. (Original) The magnetic storage medium of claim 1 wherein the second angle is between about 30° to about 60°.
- 5. (Original) The magnetic storage medium of claim 1 wherein the magnetic material layer is formed of a material with uniaxial anisotropy.

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6. (Original) The magnetic storage medium of claim 1 wherein the magnetic material layer is formed of a material with coercivity greater than 2000 Oe.

- 7. (Original) The magnetic storage medium of claim 6 wherein the magnetic material layer is formed of a Co alloy.
- 8. (Previously Presented) A magnetic storage medium comprising:

a substrate having a substrate surface;

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a seedlayer structure overlying the substrate surface; and

a magnetic material layer on the seedlayer structure, the magnetic material layer having a

C-axis tilted at about a first angle with respect to an axis perpendicular to the
substrate surface and having a magnetic easy axis oriented at a second angle with
respect to the axis perpendicular to the substrate surface;

wherein the seedlayer structure comprises:

- a first seedlayer that defines a tilted grain structure; and
- a second seedlayer overlying the first seedlayer that creates a preferred crystallographic texture and provides a template for epitaxial growth of the magnetic material layer.
- 9. (Original) The magnetic storage medium of claim 8 wherein the first seedlayer is formed from Ta.
- $10. \, (Original) \quad The \, magnetic \, storage \, medium \, of \, claim \, 8 \, wherein \, the \, second \, seedlayer \, is \, formed \, from \, Ru.$
- 11. (Original) The magnetic storage medium of claim 8 wherein the magnetic material layer is formed from a Co alloy.

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- 12. Canceled.
- 13. (Original) The magnetic storage medium of claim 1 wherein the magnetic material layer has a columnar structure oriented generally perpendicular to the substrate surface.

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- 14. (Original) The magnetic storage medium of claim 1 wherein the magnetic material layer has a columnar structure oriented generally tilted relative to the substrate surface.
- 15. (Original) The magnetic storage medium of claim 1 wherein the C-axis of the magnetic material layer is organized with azimuthal symmetry.
- 16. (Canceled)
- 17. (Canceled)
- 18. (Currently Amended) A rigid thin film magnetic <u>storage</u> medium for use in a data storage device having a surface normal, the thin film magnetic storage medium comprising:
 - a substrate;
 - a magnetic material layer;
 - a seedlayer structure underlying the magnetic material layer; and
 - a soft magnetic underlayer between the substrate and the seedlayer structure;
 - wherein the magnetic material layer comprises:
 - a C-axis; and
 - a uniaxial magnetic easy axis tilted with respect to surface normal.

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19. (Canceled)

- 20. (Currently Amended) The rigid thin film magnetic <u>storage</u> medium of claim 18 wherein the magnetic material layer has a tilted grain structure.
- 21. (Currently Amended) The rigid thin film magnetic <u>storage</u> medium of claim 18 wherein the magnetic easy axis is organized with azimuthal symmetry.
- 22. (Canceled)
- 23. (Canceled)
- 24. (Currently Amended) A rigid thin film magnetic <u>storage</u> medium for use in a data storage device having a surface normal, the thin film magnetic storage medium comprising:

a substrate; and

a magnetic material layer, the magnetic material layer comprising:

a C-axis, wherein the C-axis is tilted between about 25° and about 55° and the magnetic easy axis is tilted between about 30° and about 60° with respect to surface normal; and

a uniaxial magnetic easy axis tilted <u>and the magnetic easy axis is tilted between</u>

<u>about 30° and about 60°</u> with respect to surface normal.

25. Canceled.

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26. (Previously Presented) The rigid thin film magnetic storage medium of claim 18 wherein the magnetic material layer is grown with epitaxy on the seedlayer structure.

27. (Currently Amended) A rigid thin film magnetic <u>storage</u> medium for use in a data storage device having a surface normal, the thin film magnetic storage medium comprising:

a substrate;

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a magnetic material layer; and

a seedlayer structure underlying the magnetic material layer, the seedlayer structure comprising:

a first seedlayer overlying the substrate that defines a tilted columnar structure; and a second seedlayer overlying the first seedlayer that defines a tilted crystalline structure and provides a template for expitaxial growth of the magnetic material layer;

wherein the magnetic material layer comprises:

a C-axis; and

a uniaxial magnetic easy axis tilted with respect to surface normal.

- 28. (Original) The rigid thin film magnetic storage medium of claim 27 wherein the first seedlayer is Ta.
- 29. (Currently Amended) The <u>rigid thin film</u> magnetic storage medium of claim 27 wherein the second seedlayer is Ru.
- 30. (Currently Amended) The <u>rigid thin film</u> magnetic storage medium of claim 27 wherein the magnetic thin film is CoPtCr.

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31. (Currently Amended) The <u>rigid thin film</u> magnetic storage medium of claim 27 and further comprising a soft magnetic underlayer between the substrate and the seedlayer structure.

32 - 40. Canceled.

41. (Previously Presented) A magnetic storage medium comprising:

a substrate having a substrate surface;

a seedlayer structure overlying the substrate surface, wherein the seedlayer structure includes crystallographic texture tilted with respect to an axis perpendicular to the substrate surface and acts as a template for epitaxial growth; and

a magnetic material layer on the seedlayer structure, the magnetic material layer having a C-axis tilted at about a first angle with respect to an axis perpendicular to the substrate surface and having a magnetic easy axis oriented at a second angle with respect to the axis perpendicular to the substrate surface, wherein the magnetic material layer has a columnar structure oriented generally perpendicular to the substrate surface.